

### Abstract of the Disclosure

This invention relates to cryptographic communications methods and systems that protect a server from a connection depletion attack. Specifically, the invention presents a method for allocating a resource comprising the steps of receiving a resource allocation request from a client, imposing a computational task and a time limit for correct completion of the task upon the client, verifying that the task was performed correctly within the time limit, and allocating the resource if the task was correctly performed within the time limit.